The first AABR Screener without Disposables

MAICO MB 11 BERAphone®

- Fast and automatic ABR-screening, reliable results within seconds
- Unique BERAphone® with integrated electrodes saves costs for disposables
- CE-Chirp-Stimulus ensures fast results
- Automatic Impedance Check indicates impedance conditions
- Export function of test data for quality ensuring tracking
- Stimulation level at 35 dB_{HL}
- USB connection for power supply and data transfer
- Optional "Follow Up" with Standard ABR and Time Step Stimulus

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MAICO MB 11 BERAphone® -
Excellence in Newborn Hearing Screening

Screening within a few seconds
The MAICO MB 11 BERAphone® offers a fast automatic AABR screening test up to the brainstem for newborns and young children.
The measurement is very easy using the patented BERAphone® technology. The BERAphone® is simply placed onto the babies head, after just some application of electrode gel. Within a few seconds you will get the information if the baby is hearing well. If a response at 35 dB_{HL} is detected and verified, the test result is PASS.
When performing AABR measurements - in contrary to OAE measurements - you also get information about possible hearing defects located behind the inner ear, such as auditory neuropathy (AN).

The new patented CE-Chirp™
Stimulates all regions of the cochlea at the same time and thus generates much higher responses and consequently faster results than a standard click. This leads to very reliable results under normal noisy conditions.

Automatic impedance check
Preferably, EEG measurements require as good a conduction as possible between the patient's skin and the electrode. The integrated automatic impedance check displays impedance testing conditions.

Integrated tracking and data transfer
The software allows the user to export patient and test data for documentation and tracking.

MAICO BERAphone®
The patented BERAphone® includes the speaker, the electronic and the measuring electrodes in one unit. The power supply and the data transfer are made through USB connection.

Follow Up (Option)
For a "Follow Up" after a REFER result, a "standard" ABR measurement is available for visual verification by an expert. For a fast threshold measurement the integrated Time Step Stimulus test allows to test six different click intensities in one measurement. By using this test the threshold becomes apparent at one glance.

No disposable costs – highly cost effective measurement
As the stainless steel electrodes are integrated in the BERAphone® no application of disposable electrodes is necessary. Thus no disposable costs arise and the measurement is highly cost effective.

MB 11 BERAphone® and cradle

Technical Data

Number of channels:	1
Screening	
Stimulus type:	CE-Chirp stimulus™
Stimulus rate:	93/s
Stimulus levels:	35 dB_{HL}
Time Step Stimulus (opt)	Click
ABR (option):	
Stimulus type:	Click
Stimulus rate:	14/s
Stimulus level:	0 … 70 dB_{HL}
Transducers:	Dynamic transducer (8Ω) built-in in MAICO BERAphone® measuring probe
EEG Amplifier Amplification:	87 dB (23.000 times)
Display:	Normal mode: test result (PASS/REFER/ ABORT), test diagram, signal quality display, traffic light for impedance test.
Signal quality check:	By signal quality bar (EEG)
AABR-Algorithm:	patented FSS-test (fast steady state)
Sensitivity:	> 99,9 %
Specificity:	> 96,7 %
Standards:	IEC 601-1, BF according to medical directive 93/42/EEC CE 0124
Power supply	USB-Port 5V DC max. 400 mA
Standard Accessories:	MAICO BERAphone® measuring probe, MB 11 box, carrying case, software-CD, electrode gel, USB cable, user manual
Computer requirements:	Intel Pentium III compatible 800 MHz, or better, min. 256 MB RAM, 2 GB Harddisk, 800x600 colour display or monitor, WINDOWS XP > SP2, Windows 2000 SP4, Power supply with ground connection (3-pin)

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